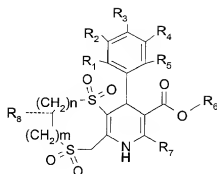


What is claimed is:

1. A compound of Formula I,



Formula I

or a pharmaceutically acceptable salt thereof, wherein

- (a) R_1 , R_2 , R_3 , R_4 and R_5 are independently selected from the group consisting of H, OH, halogen, cyano, NO_2 , alkyl, C_{1-8} alkoxy, C_{1-8} alkylsulfonyl, C_{1-4} carboalkoxy, C_{1-8} alkylthio, difluoromethoxy, difluoromethylthio, trifluoromethyl, and oxadiazole (formed by R_1 and R_2);

- (b) R_6 is selected from the group consisting of H, C_{1-5} straight or branched alkyl, aryl, 3-piperidyl, N-substituted 3-piperidyl, N-substituted 2-pyrrolidinyl methylene, and substituted alkyl, wherein

said N-substituted 3-piperidyl and said N-substituted 2-pyrrolidinyl methylene may be substituted with C_{1-8} straight or branched chain alkyl or benzyl, and said substituted alkyl may be substituted with C_{1-8} alkoxy, C_{2-8} alkanoyloxy, phenylacetyloxy, benzoyloxy, hydroxy, halogen, p-tosyloxy, mesyloxy, amino, carboalkoxy or $\text{NR}'\text{R}''$, wherein

- (i) R' and R'' are independently selected from the group consisting of H, C_{1-8} straight or branched alkyl, C_{3-7} cycloalkyl,

phenyl, benzyl, and phenethyl, or (ii) R' and R'' together form a heterocyclic ring selected from the group consisting of piperidino, pyrrolidino, morpholino, thiomorpholino, piperazino, 2-thieno, 3-thieno, and an N-substituted derivative of said heterocyclic rings, said N-substituted derivative being substituted with H, C₁₋₈ straight or branched alkyl, benzyl, benzhydryl, phenyl and/or substituted phenyl (substituted with NO₂, halogen, C₁₋₈ straight or branched chain alkyl, C₁₋₈ alkoxy and/or trifluoromethyl);

- (c) R₇ is selected from the group consisting of H, amino, alkyl, aryl, trifluoromethyl, alkoxymethyl, 2-thieno and 3-thieno;
- (d) R₈ is connected to the bis-sulfone ring via a single or double bond, as applicable, and is selected from the group consisting of H, alkylhydroxy, alkenyl, amino, phenyl, benzyl, C₁₋₈ straight or branched alkyl, trifluoromethyl, alkoxymethyl, C₃₋₇ cycloalkyl, substituted benzyl, formyl, acetyl, t-butyloxy carbonyl, propionyl, substituted alkyl and R'''CH₂C=O, wherein (i) said substituted benzyl is substituted with halogen, trifluoromethyl, C₁₋₈ straight and/or branched alkyl or C₁₋₈ alkoxy, (ii) said substituted alkyl is substituted with amino, dialkyl amino, C₁₋₈ alkoxy, hydroxy and/or halogen, and (iii) R''' is amino, dialkyl amino, C₁₋₈ alkoxy, hydroxy or halogen; and
- (e) m, n, and their sum are each an integer from 0 to 4.

2. The compound of Claim 1, wherein R₆ is -(CH₂)₂N(CH₃)CH₂PH.

3. The compound of Claim 1, wherein R₆ is methyl.

4. The compound of Claim 3, wherein R₄ is CF₃, R₅ is F, R₇ is methyl, R₈ is methylene, m is 0 and n is 1.

5. The compound of Claim 3, wherein R_4 is CF_3 , R_5 is F, R_7 is methyl, R_8 is alkylhydroxy, m is 0 and n is 1.
- 5 6. The compound of Claim 1, wherein R_7 is methyl.
7. The compound of Claim 6, wherein R_6 is $-(CH_2)_2N(CH_3)CH_2PH$.
8. The compound of Claim 6, wherein R_4 is CF_3 and R_5 is F.
- 10 9. The compound of Claim 6, wherein R_5 is Cl.
10. The compound of Claim 6 wherein R_1 is F and R_5 is Cl.
- 15 11. The compound of Claim 1 which is: 5*H*-1,4-Dithiepino[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
12. The compound of Claim 1 which is: 5*H*-1,4-Dithiepino[6,5-*b*]pyridine-8-carboxylic acid, 2,3,6,9-tetrahydro-7-methyl-9-(3,4,5-trifluorophenyl)-2-[methyl(2-thienylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
- 20 13. The compound of Claim 1 which is: 5*H*-1,4-Dithiepino[6,5-*b*]pyridine-8-carboxylic acid, 9-[2-fluoro-6-(trifluoromethyl)phenyl]-2,3,6,9-tetrahydro-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
- 25 14. The compound of Claim 1 which is: 5*H*-1,4-Dithiepino[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide, (9*R*).
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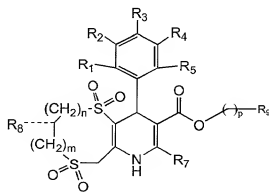
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15. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide, (9*S*).
16. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-hydroxyphenyl)-2,3,6,9-tetrahydro-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
17. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chlorophenyl)-2,3,6,9-tetrahydro-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
18. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-[2-fluoro-3-(trifluoromethyl)phenyl]-2,3,6,9-tetrahydro-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
19. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 2,3,6,9-tetrahydro-7-methyl-9-(3-nitrophenyl)-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
20. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 2,3,6,9-tetrahydro-7-methyl-9-(3,4,5-trifluorophenyl)-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
21. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-methyl ester 1,1,4,4-tetraoxide.
22. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-5-nitrophenyl)-2,3,6,9-tetrahydro-7-methyl-methyl ester 1,1,4,4-tetraoxide.

23. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 2,3,6,9-tetrahydro-7-methyl-9-(pentafluorophenyl)-methyl ester 1,1,4,4-tetraoxide.
24. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2,6-difluorophenyl)-2,3,6,9-tetrahydro-7-methyl-methyl ester 1,1,4,4-tetraoxide.
25. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chlorophenyl)-2,3,6,9-tetrahydro-7-methyl-methyl ester 1,1,4,4-tetraoxide.
26. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-methyl ester 1,1,4,4-tetraoxide.
27. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-[2-fluoro-3-(trifluoromethyl)phenyl]-2,3,6,9-tetrahydro-7-methyl-methyl ester 1,1,4,4-tetraoxide.
28. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2,3-difluorophenyl)-2,3,6,9-tetrahydro-7-methyl-methyl ester 1,1,4,4-tetraoxide.
29. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 2,3,6,9-tetrahydro-7-methyl-9-(2-nitrophenyl)-methyl ester 1,1,4,4-tetraoxide.
30. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-[2-fluoro-3-(trifluoromethyl)phenyl]-2,3,6,9-tetrahydro-7-methyl-3-methylene-methyl ester 1,1,4,4-tetraoxide.

31. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-[2-fluoro-3-(trifluoromethyl)phenyl]-2,3,6,9-tetrahydro-7-methyl-3-methylene-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
- 5 32. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-[2-fluoro-3-(trifluoromethyl)phenyl]-2,3,6,9-tetrahydro-3-(hydroxymethyl)-7-methyl-methyl ester 1,1,4,4-tetraoxide.
- 10 33. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-[2-fluoro-3-(trifluoromethyl)phenyl]-2,3,6,9-tetrahydro-3-(hydroxymethyl)-7-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
- 15 34. The compound of Claim 1 which is: 5*H*-1,4-Dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 2,3,6,9-tetrahydro-3-(hydroxymethyl)-7-methyl-9-(3-nitrophenyl)-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,4,4-tetraoxide.
- 20 35. The compound of Claim 1 which is: 2*H*,6*H*-1,5-Dithiocino[3,2-*b*]pyridine-9-carboxylic acid, 3,4,7,10-tetrahydro-8-methyl-10-(3-nitrophenyl)-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,5,5-tetraoxide.
- 25 36. The compound of Claim 1 which is: 2*H*,6*H*-1,5-Dithiocino[3,2-*b*]pyridine-9-carboxylic acid, 10-[2-fluoro-6-(trifluoromethyl)phenyl]-3,4,7,10-tetrahydro-8-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,5,5-tetraoxide.
- 30 37. The compound of Claim 1 which is: 2*H*,6*H*-1,5-Dithiocino[3,2-*b*]pyridine-9-carboxylic acid, 3,4,7,10-tetrahydro-8-methyl-10-(pentafluorophenyl)-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,5,5-tetraoxide.

38. The compound of Claim 1 which is: 2*H*,6*H*-1,5-Dithiocino[3,2-*b*]pyridine-9-carboxylic acid, 10-[2-fluoro-3-(trifluoromethyl)phenyl]-3,4,7,10-tetrahydro-8-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,5,5-tetraoxide.
39. The compound of Claim 1 which is: 2*H*,6*H*-1,5-Dithiocino[3,2-*b*]pyridine-9-carboxylic acid, 10-(2-chlorophenyl)-3,4,7,10-tetrahydro-8-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,5,5-tetraoxide.
40. The compound of Claim 1 which is: 2*H*,6*H*-1,5-Dithiocino[3,2-*b*]pyridine-9-carboxylic acid, 3,4,7,10-tetrahydro-8-methyl-10-(2-nitrophenyl)-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,5,5-tetraoxide.
41. The compound of Claim 1 which is: 4*H*-1,3-Dithiino[5,4-*b*]pyridine-7-carboxylic acid, 8-[2-fluoro-3-(trifluoromethyl)phenyl]-5,8-dihydro-6-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,3,3-tetraoxide.
42. The compound of Claim 1 which is: 4*H*-1,3-Dithiino[5,4-*b*]pyridine-7-carboxylic acid, 8-(2-chlorophenyl)-5,8-dihydro-6-methyl-2-[methyl(phenylmethyl)amino]ethyl ester 1,1,3,3-tetraoxide.
43. A compound of Formula (II),



II

or a pharmaceutically acceptable salt thereof, wherein

- (a) R_1 , R_2 , R_3 , R_4 and R_5 are independently selected from the group consisting of H, OH, halogen, cyano, NO_2 , alkyl, C_{1-8} alkoxy, C_{1-8} alkylsulfonyl, C_{1-4} carboalkoxy, C_{1-8} alkylthio, difluoromethoxy, difluoromethylthio, trifluoromethyl, and oxadiazole (formed by R_1 and R_2);
- (b) R_7 is selected from the group consisting of H, amino, alkyl, aryl, trifluoromethyl, alkoxymethyl, 2-thieno and 3-thieno;
- (c) R_8 is connected to the bis-sulfone ring via a single or double bond, as applicable, and is selected from the group consisting of H, alkylhydroxy, alkenyl, amino, phenyl, benzyl, C_{1-8} straight or branched alkyl, trifluoromethyl, alkoxymethyl, C_{3-7} cycloalkyl, substituted benzyl, formyl, acetyl, t-butyloxy carbonyl, propionyl, substituted alkyl and $\text{R}'''\text{CH}_2\text{C}=\text{O}$, wherein (i) said substituted benzyl is substituted with halogen, trifluoromethyl, C_{1-8} straight and/or branched alkyl or C_{1-8} alkoxy, (ii) said substituted alkyl is substituted with amino, dialkyl amino, C_{1-8} alkoxy, hydroxy and/or halogen, and (iii) R''' is amino, dialkyl amino, C_{1-8} alkoxy, hydroxy or halogen;
- (d) R_9 is selected from -alkyl-OH, alkylamine, lactone, cyclic carbonate, alkyl-substituted cyclic carbonate, aryl-substituted cyclic carbonate, $-\text{aryl}-\text{C}(\text{O})\text{OR}'$, $-\text{alkyl-aryl}-\text{C}(\text{O})\text{OR}'$, $-\text{alkyl}-\text{OC}(\text{O})\text{R}'$, $-\text{alkyl}-\text{C}(\text{O})\text{R}'$, $-\text{alkyl}-\text{C}(\text{O})\text{OR}'$, $-\text{alkyl}-\text{N}(\text{R}'')\text{C}(\text{O})\text{R}'$, and $-\text{alkyl}-\text{N}(\text{R}'')\text{C}(\text{O})\text{OR}'$, wherein

R^I and R^{II} are independently selected from the group consisting of hydrogen, amino, alkyl, aryl, aryl-fused cycloalkyl, and heterocyclyl, the amino, alkyl, aryl, aryl-fused cycloalkyl, and heterocyclyl being optionally substituted with halogen, cyano, NO_2 , lactone, amino, alkylamino, aryl-substituted alkylamino,

amide, carbamate, carbamoyl, cyclic carbonate, alkyl, halogen-substituted alkyl, arylalkyl, alkoxy, heterocyclyl and/or aryl (the aryl being optionally substituted with OH, halogen, cyano, NO₂, alkyl, amino, dimethylamino, alkoxy, alkylsulfonyl, C₁₋₄ carboalkoxy, alkylthio and/or trifluoromethyl);

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(e) m, n, and their sum are each an integer from 0 to 4; and

(f) p is an integer from 0 to 4.

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44. The compound of Claim 43, wherein R₉ is -aryl-alkyl-OC(O)R'.

45. The compound of Claim 43, wherein R₉ is -alkyl-N(R'')C(O)R'.

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46. The compound of Claim 45 which is: 5*H*-[1,4]dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-, 2-[[[(1,1-dimethylethoxy)carbonyl]amino]ethyl ester, 1,1,4,4-tetraoxide.

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47. The compound of Claim 43, wherein R₉ is -alkyl-OC(O)R'.

48. The compound of Claim 47 which is: 5*H*-[1,4]dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-, 2-[[[(1,2,3,4-tetrahydro-2-naphthalenyl)carbonyl]oxy]ethyl ester, 1,1,4,4-tetraoxide.

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49. The compound of Claim 47 which is: 5*H*-[1,4]dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-, 2-[(cycloheptylcarbonyl)oxy]ethyl ester, 1,1,4,4-tetraoxide.

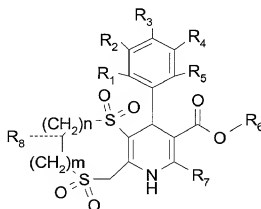
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50. The compound of Claim 47 which is: 5*H*-[1,4]dithiepine[6,5-*b*]pyridine-8-carboxylic acid, 9-(2-chloro-6-fluorophenyl)-2,3,6,9-tetrahydro-7-methyl-, 2-[[[4-(1-methylethoxy)benzoyl]oxy]ethyl ester, 1,1,4,4-tetraoxide.

58. The method of Claim 56, wherein the cardiovascular disorder is selected from the group consisting of hypertension, ischemia, angina, congestive heart failure, myocardial infarction and stroke.

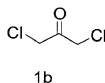
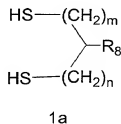
59. An apparatus for administering to a subject the pharmaceutical composition of Claim 53, comprising a container and the pharmaceutical composition therein, whereby the container has a means for delivering to the subject a therapeutic and/or prophylactic dose of the pharmaceutical composition.

60. A process for preparing the compound of Claim 1

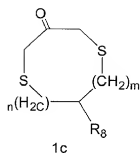


wherein m, n, and their sum are each an integer from 1 to 4, which process comprises the steps of

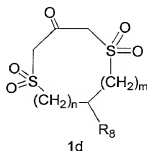
(a) reacting the compound of Formula 1a with the compound of Formula 1b



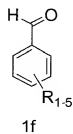
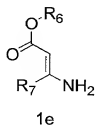
to form the compound of Formula 1c;



- (b) reacting the compound of Formula 1c with m-chloroperoxybenzoic acid to form the compound of Formula 1d; and



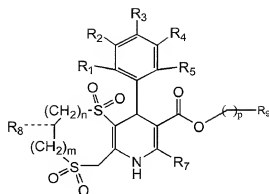
- (c) reacting the compound of Formula 1d with the compounds of Formulae 1e and 1f



to form the compound of Claim 1.

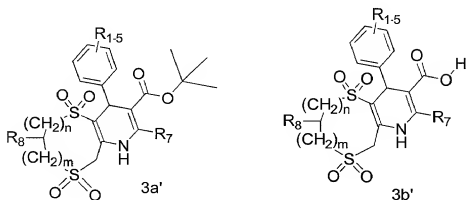
61. The process of Claim 60, wherein R_8 of the compound of Formula I is a methylene group formed from a methylol group using a dehydrating agent.

62. A process of preparing the compound of Claim 43,



which process comprises the steps of

- 5 (a) reacting the compound of Formula 3a' with formic acid to form the compound of Formula 3b'; and



- (b) reacting the compound of Formula 3b with R_8Br or R_8Cl to form the compound of Claim 43.

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63. The process of Claim 62, wherein R_7 is methyl.